

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U.S. Land Office  
Salt Lake  
Serial Number 000000  
Location Number 000000

SUNDRY NOTICES AND REPORTS ON WELLS

SCHEME OF INTENTION TO DRILL		SUBSEQUENT RECORD OF DRILLING	
NOTICE OF INTENTION TO CHANGE PLANE		RECORD OF PERFORATING CASING	
REPORT ON DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

192

Following is a notice of intention to do work on land under permit described as follows:  
report of work done lease

Utah Grand Crescent  
(State or Territory) (County or Subdivision) (Field)  
Well No. 2. Section 31, 32, Sec. 9, 22 South, 19 East, Salt Lake  
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 5 ft. N of S. line and 5 ft. E of S. line of sec. 9

The elevation of the derrick floor above sea level is        ft.

DETAILS OF PLAN OF WORK

(State required and suggested depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing jobs, and all other important proposed work.)

In plugging this hole it is intended to move an adequate rig on the ground and clean the same out to 1223'. If wooden plug has been placed in the bottom of well in an attempt to shut off water in bottom, this will be drilled out to a total depth of 1223'. The whole area between 1195' and 1223' will be filled with cement and tested for hardness under supervision of the U.S.G.S. representative. A string of tubing to the top of the set cement will then be run and the hole pumped full of mud fluid weighing not less than 9 pounds per gallon. Monumented according to government regulations. (It is understood that the total expenditure to be made in plugging the above well, together with #1 well on Sec. 10, shall not exceed \$2,500.)

Approved Oct. 25, 1933

Company J. B. Burch

By       

Title District Engineer  
U.S. Geological Survey

Title Drilling Operator

Address Salt Lake City, Utah

Address Canal Station, Ohio

NOTE.—Reports on this form to be submitted in triplicate to the Department for approval.

Grand County  
Crescent

Armstrong Co. Well #1, SESESE 9, 22 S. 19 E.

S.L. 031629

2

OCT

Armstrong Company Well #1, ~~SWSW~~  
Sec. 9 T. 22 S. R. 19 E. (S.L. 031799)

Drilling at 800'. A considerable showing of oil was encountered at 700'. Progress has been slow the last 200' due to very hard formation. After the salt beds have been reached, the contractor believes that he will be able to make rapid progress. While the hole is being drilled principally as a test for potash, tests will be made also of oil showings. (Times-Independent 10-14-26)

NOV

1926 Armstrong Co. Well #1, ~~SWSW~~  
Sec. 9 T. 22 S. R. 19 E. ( )

Drilling at 1094'. The company will continue progress with diamond core bit.

DEC

1926

Armstrong Co. Well #1, SW-SW 3W  
Sec. 9-22S-19E (SL 031629)

Drilling at 1094'. The company will continue progress with diamond core bit. Coring at 1300' (Jones)

Armstrong Co. Well #1  
SWSW Sec. 9-22S-19E (SL-031629)

JAN

1927 Drilling at 1260 approximately.  
The 6 1/4 string of casing is parted.  
(visited 1-19-27)

Armstrong Co. Well #1, SWSW  
Sec. 9-22S-19E (SL031629)

This well is reported to have cored seven foot saturated oil sand at 1210' to 1217'. A 43/4" string was run to test the productivity of this sand. To date the well has shown no evidence of production. Mr. Jones of the Armstrong Co. estimated this well would make a 30 barrel well if shot. The well was not shot because of bottom water within two feet of production. This discovery, if any, was reported in the La Platabut is probably in the Salt Wash. The hole will be abandoned and the rig moved east to another location not yet selected.

(Information Mr. Jones well visited 2/12/27)

MAR

1927

Armstrong Company Well #1, ~~SWSW~~  
Section 9-22S-19E. (S.L. 031629)

This well is temporarily shut down at 1220' for repairs on machinery and equipment. The company has decided not to abandon the well at this time. Operations will be resumed within the next two weeks. (Information W. K. Armstrong 3/18/27).

APR

1927

Armstrong Co. Well #1,  
SE SE SE Sec. 9-22S-19E. (S.L. 031629).

Shut down at 1,220'. Work will be resumed upon the arrival of a string of standard tools. (D.P. Jones 4-13-27).

MAY

1927

Armstrong Company, Well #1,  
~~SESESE~~ Sec. 9-22S-19E. (S.L. 031629).

Shut down at 1,220'. (Salt Lake Tribune).

U. S. LAND OFFICE Salt Lake  
 SERIAL NUMBER 031629  
 LEASE OR PERMIT TO PROSPECT Oil & Gas

RECEIVED  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company W. M. ARMSTRONG Address LOS ANGELES,  
 Lessor or Tract F. K. CAMERON Field SALT VALLEY State UTAH  
 Well No. 1 Sec. 9 T. 22 R. 19 E Meridian S. L. M. County Grand Elevation 4900 ft.  
 Location 1 ft. N. of 3 Line and 5 ft. W. of 1 Line of Sec. 9 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. M. Armstrong

Title \_\_\_\_\_

Date February 7, 1927

The summary on this page is for the condition of the well at above date.

Commenced drilling Sept. 16, 1926 Finished drilling \_\_\_\_\_, 19\_\_\_\_

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1812 to 1220 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from None to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	

## MUDDING AND CEMENTING RECORD

Size	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

Chapter Material

Site

### SHOOTING RECORD

Shot	Shot used	Explosive used	Quantity	Date	Depth charged out

### TOOLS USED

Rotary tools were used from SURFACE feet to 1220 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

### DATES

\_\_\_\_\_ 19\_\_\_\_ Put to producing \_\_\_\_\_ 19\_\_\_\_  
 The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ %  
 emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, °Bé. \_\_\_\_\_  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

### EMPLOYEES

Chas. Sulzer \_\_\_\_\_, Driller \_\_\_\_\_, Driller  
H. H. Joy \_\_\_\_\_, Driller \_\_\_\_\_, Driller

### FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	223	223 ✓	Sand and gravel
223	671	671	Shale and Lime Shells
671	897	897	Dakota Shale, Lime and sand series 690-700 some water.
897	963	963	Varigated Shale and Sand
963	976	976	Hard Sandstone
976	1055	1055	Varigated Shale
1055	1095	1095	Hard Sandstone
1095	1117	1117	Conglomerant
1117	1119	1119	Fling
1119	1200	1200	Varigated Shale
1200	1210	1210	Crystalized Sandstone
1210	1220	1220	Sandstone Showing little oil
1220	1223		
FROM	TO	TOTAL FEET	FORMATION

# FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
1040	1055	15	Variegated shale and sand
1055	1071	16	Hard sand
1071	1075	4	Shale
1075	1095	20	Hard grey sand
1095	1117	22	Green & brown conglomerate
1117	1118	1	Flint
1118	1212	94	Variegated shale
1212	1220	8	Sandstone - showing oil
1220	1221	1	Variegated sandy shale
1221	1222	1	Blue water sand - water
1222	1223	1	Variegated shale
1223	1230	7	Variegated shale
1230	1231	1	Variegated shale
1231	1232	1	Variegated shale
1232	1233	1	Variegated shale
1233	1234	1	Variegated shale
1234	1235	1	Variegated shale
1235	1236	1	Variegated shale
1236	1237	1	Variegated shale
1237	1238	1	Variegated shale
1238	1239	1	Variegated shale
1239	1240	1	Variegated shale
1240	1241	1	Variegated shale
1241	1242	1	Variegated shale
1242	1243	1	Variegated shale
1243	1244	1	Variegated shale
1244	1245	1	Variegated shale
1245	1246	1	Variegated shale
1246	1247	1	Variegated shale
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1493	1494	1	Variegated shale
1494	1495	1	Variegated shale
1495	1496	1	Variegated shale
1496	1497	1	Variegated shale
1497	1498	1	Variegated shale
1498	1499	1	Variegated shale
1499	1500	1	Variegated shale

The following log was attached to the above.

223	671	Sand and gravel
671	897	Shale & lime shells
897	963	Dakota shale lime sand series
963	976	690 - 700 some water
976	1055	Variegated shale & sand
1055	1095	Hard sandstone
1095	1117	Variegated shale
1117	1119	Hard sandstone
1119	1200	Conglomerate
1200	1210	Flint
1210	1220	Variegated shale
1220	1223	Crystallized sandstone
1223	1224	Sandstone - showing little oil
1224	1225	Water sand

## DATE

Cable logs were run from 1961 to 1962 and from 1962 to 1963 and from 1963 to 1964 and from 1964 to 1965 and from 1965 to 1966 and from 1966 to 1967 and from 1967 to 1968 and from 1968 to 1969 and from 1969 to 1970 and from 1970 to 1971 and from 1971 to 1972 and from 1972 to 1973 and from 1973 to 1974 and from 1974 to 1975 and from 1975 to 1976 and from 1976 to 1977 and from 1977 to 1978 and from 1978 to 1979 and from 1979 to 1980 and from 1980 to 1981 and from 1981 to 1982 and from 1982 to 1983 and from 1983 to 1984 and from 1984 to 1985 and from 1985 to 1986 and from 1986 to 1987 and from 1987 to 1988 and from 1988 to 1989 and from 1989 to 1990 and from 1990 to 1991 and from 1991 to 1992 and from 1992 to 1993 and from 1993 to 1994 and from 1994 to 1995 and from 1995 to 1996 and from 1996 to 1997 and from 1997 to 1998 and from 1998 to 1999 and from 1999 to 2000 and from 2000 to 2001 and from 2001 to 2002 and from 2002 to 2003 and from 2003 to 2004 and from 2004 to 2005 and from 2005 to 2006 and from 2006 to 2007 and from 2007 to 2008 and from 2008 to 2009 and from 2009 to 2010 and from 2010 to 2

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U. S. Land Office .....  
Salt Lake City, Utah  
Serial Number 031629  
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT RECORD OF SHOOTING.....
NOTICE OF INTENTION TO CHANGE PLANS.....	RECORD OF PERFORATING CASING.....
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF.....	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING.....
REPORT ON RESULT OF TEST OF WATER SHUT-OFF.....	NOTICE OF INTENTION TO ABANDON WELL.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO SHOOT.....	SUPPLEMENTARY WELL HISTORY.....

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 17, 1927

Following is a ~~notice of intention to do work~~ report of work done on land under ~~lease~~ permit described as follows:

Utah Grand County Crescent  
(State or Territory) (County or Subdivision) (Field)  
Well No. 1 SE 1/4 Sec. 9 22 S. 19 E. Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 5 ft. N of S. line and 5 ft. W of E. line of sec. 9

The elevation of the derrick floor above sea level is 4400 ft.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Casing in Well - 42 ft. 10 inch; 354 ft. 6 1/4 in., 52 ft. 4 1/2 inch.

A 3 ft. water sand from 1220 to 1223 ft. was plugged off with a 5 ft. wooden plug and a successful shut-off effected.

Also, a wooden plug was driven in the 10 inch at the top of the hole and a barrel placed over that. You have in your files a complete log of this well submitted sometime back.

Approved \_\_\_\_\_  
(Date)

~~Comptroller~~ (Signed) W. M. Armstrong

By (Signed) Chas. W. Sulzer  
Superintendent.

Title \_\_\_\_\_  
GEOLOGICAL SURVEY

Title \_\_\_\_\_

Address \_\_\_\_\_

Address 612 Sun Finance Bldg.,  
Los Angeles, California

NOTE:—Reports on this form to be submitted in triplicate to the Supervisor for approval.



**PLUGS AND ADAPTERS**

Heaving plug—Material ..... Length ..... Depth set .....

Adapters Material ..... Size .....

**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

**TOOLS USED**

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

**DATES**

....., 19..... Put to producing ..... 19.....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. ....

**EMPLOYEES**

....., Driller ..... Driller

....., Driller ..... Driller

**FORMATION RECORD**

FROM	TO	TOTAL FEET	FORMATION
0	56	56	Sand -- shale -- gravel
56	70	14	" gravel
70	168	98	" shale
168	223	55	Hard black shale
223	283	60	Sand and shale
283	296	13	Lime shell
296	323	27	Hard lime & shells
323	377	54	Hard sand & shale
377	420	43	lime streaks in shale & sand
420	466	46	Sand & shale streaks
466	492	26	lime and shale
492	502	10	Hard lime
502	570	68	Sand and shale alternating
570	580	10	lime & shale
580	660	80	" " streaks of sand
660	704	44	Sand & sandy shales
704	710	6	Sand -- showing heavy oil
710	762	52	Sticky shales, sand shales
762	770	8	Hard lime
770	790	20	lime & shale
790	842	52	Hard sand & shale
842	854	12	Hard shell
854	897	43	Shale -- lime streaks
897	1007	110	Hard variegated red and grey sand & shale
1007	1040	33	<del>XXXXXXXXXXXXXXXXXXXX</del> hard grey sandstone

(OVER)



Grand County  
Crescent

Armstrong Co. Well #1, SESESE 9, 22S, 19E.

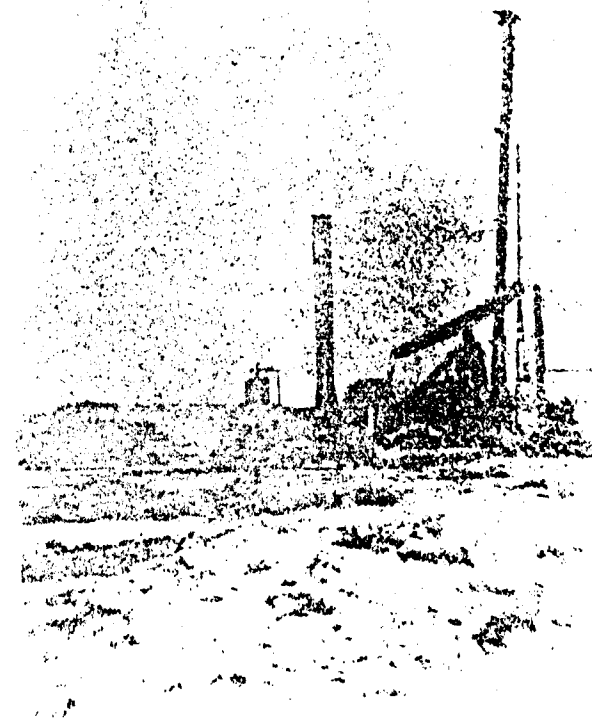
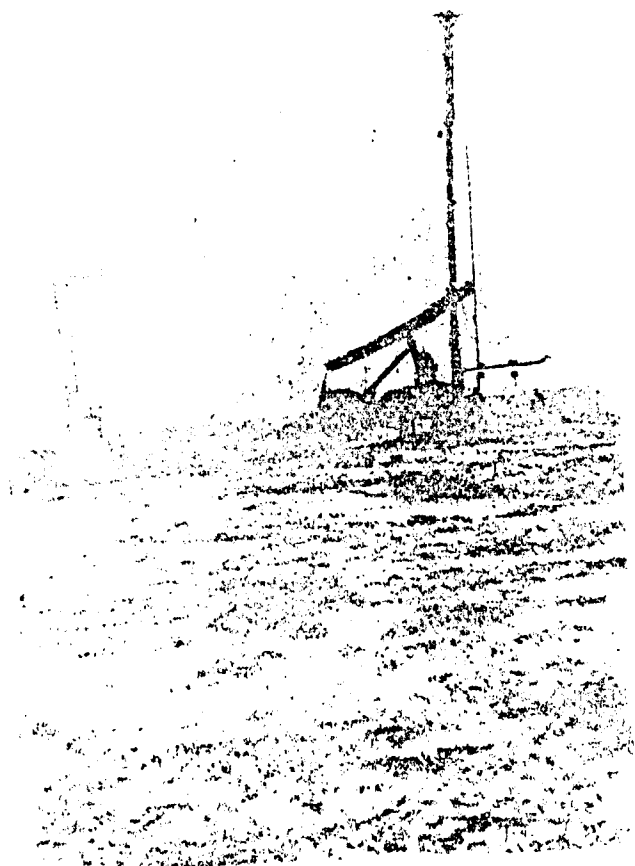
SL 031629

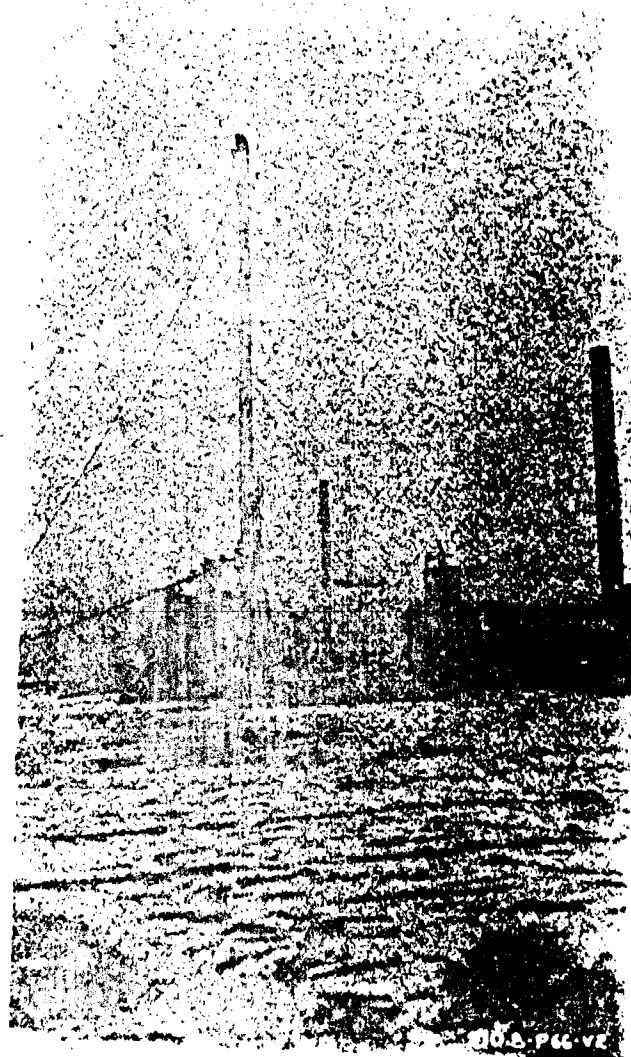
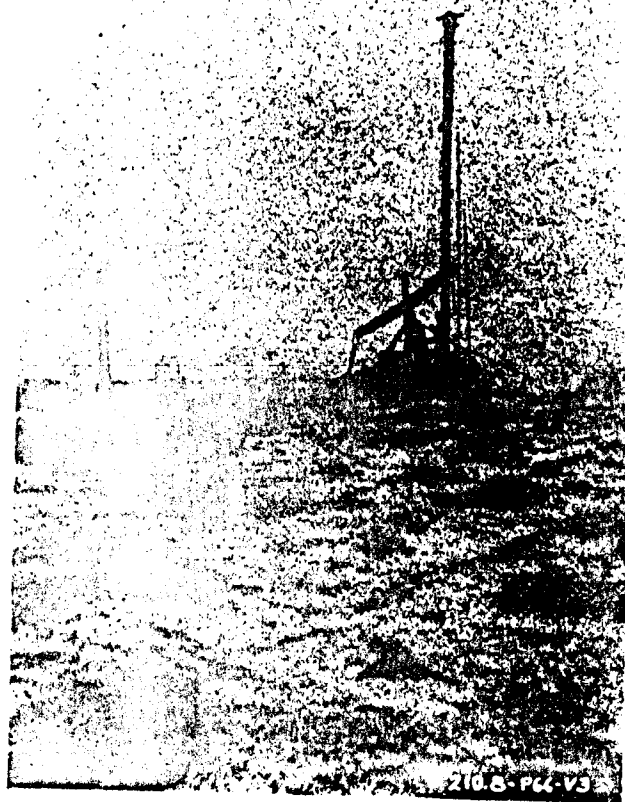
SEP

Armstrong Co., Well #1,  
~~SW 1/4 Sec. 9-22S-19E~~ (S. L. ? )

Drilling with rotary at 46'. This company is using the most advanced equipment for drilling, consisting of a steel 126' derrick, stone hydraulic draw works and core barrels, slicker lines for drilling and driving circulating pumps and Gardner circulating pump. The company has a depth of 4000' has been reached after which the entire hole will be cored. The contract calls for a minimum depth of 4000', if necessary, and for two holes. The contractor expects to complete the first hole in 60 days.  
(Well visited 9-21-36)

See next sheet





Shut down at 1,220'. It is not known when operations will be resumed. (Visited 6-2-27)

Armstrong Company Well #1  
SESESE Sec. 9-22S-19E (S.L. 031629) DEC - 1930

This well is to be abandoned to clear up a case of long standing. The well was drilled to 1220' in 1926. Work should begin Christmas week and details will be given in the next report. (Operator's letters and reports)

STATUS: DSD

Armstrong Company Well #1, SESESE  
SE Sec. 9-22S-19E (S. L. 031629) JAN - 1931

Work of plugging and abandoning this well as required in an extension of time on the permit was started December 11, 1930. A Star #30 drilling machine was rigged up and first run made on December 22, 1930. Bridges were located at 360, 410 and 500', which were drilled up or driven down with little trouble. At 700' trouble in getting the bailer to follow and the tools to run properly indicated some unusual hole condition. Some three or four days were required to drill from 700 to 720' due to drilling on and sidetracking casing left in hole or thrown at time of abandonment. At 720' the tools had sidetracked the pipe at such an angle they would no longer rotate or drop in any. Approximately \$2000 of the \$2500 required to be spent in plugging and abandonment work by terms of the permit extension had been expended at this time. Permission was given to cement and mud the hole to surface at this depth since it was shown highly improbable that the hole could be cleaned to bottom and the water sand reported at 690 to 700' could be effectually shut off at 720'. Forty-four sacks of cement were dumped on bottom with dump bailer which filled the hole to 676'. The remainder of the hole was filled to surface with heavy mud placed on bottom with a dump bailer. A regulation marker consisting of a joint of 4" casing was cemented in top of conductor pipe left in hole by former operator. The plugging and abandonment work was completed January 17, 1931. (Visited Jan. 2, 7, 8, 9, 10)

STATUS: Changed from DSD to P&A

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLAN	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 20, 1931

Following is a ~~notice of intention to drill~~ <sup>report of work done</sup> on land under ~~permit~~ <sup>lease</sup> described as follows:

Utah (State or Territory) Grand (County or Subdivision) Crescent (Field)  
Well No. 2 SE 1/4 Sec. 9 22 South 19 E Salt Lake (Mentions)

The well is located 5 ft. N of S line and 5 ft. E of W line of sec. 9

The elevation of the derrick floor above sea level is ft.

### DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands show stem weights and lengths of proposed casing, indicate mudding tubs cementing points, and all other important proposed work.)

This well has been plugged and abandoned as required in permit extension granted May 15, 1930 in following manner:

- Dec. 11 to 16 Tearing down tools and dismantling Star No. 20 to move to location.
- Dec. 17 to 18 Moved drilling machine to location.
- Dec. 19 to 21 Rigging up.
- Dec. 22 Ran into hole and located bridge at 40'.
- Dec. 23-24 Drilling of bridge and cleaning out at 410'.
- Dec. 25 Cleaned out to 500'. Hole caving
- Dec. 26 to 31 Hole cleaned out to 600'. Caving so fast that no new hole can be made.
- Jan. 1 Holiday.
- Jan. 2-5 Bailed hole dry to stop cave and help cleaning out. Hole filled up again to 200' of surface over night.
- Jan. 4 Started cleaning out again. Cleaned out to 675'.
- Jan. 5 Cleaned out to 700'. Bailer will not go to bottom.
- Jan. 6 Cleaned out to 715'. Bailer will not go to bottom. Tools not running properly.
- Jan. 7 Drilling on iron and side tracking. Total depth 715'.
- Jan. 8 Drilling on iron and side tracking. Total depth 720'.
- Jan. 9 Iron side tracked to 720'. Tools will not run on account of iron along side of tools. Ran impression block and determined iron to be pipe left in hole.
- Jan. 10 Permission to abandon hole at 720' given by District Engineer, U. S. Geological Survey. Dumped 44 sacks of cement with dump bailer.
- Jan. 11 Found top of cement at 675' and set. Filled hole with heavy mud, dumped with bailer, to 475'.
- Jan. 12 Filled hole with heavy mud to 275'. All mud dumped with bailer.
- Jan. 13 Completed mudding hole to surface.
- Jan. 14 Started to take down tools and dismantle rig.
- Jan. 15 Returned rig to former location.
- Jan. 17 Cleaned up around location and erected regulation marker consisting of joint 4" casing 21' in length with lower 12' embedded in cement.

Armstrong Well Sec. 4-223-19E

Drilled to 1222

Water sand 1222-1222.8' Blue water sand,

~~555~~ wooden plug top 1218'

~~505~~ 680-700 2 water sands little water.

Cleaned out mud but nothing much came in.

Stopped <sup>gas</sup> life after shooting off  $4\frac{3}{4}$ " water came in.

Well showed 100<sup>+</sup> Pressure when shut in with mud in hole.

Pipe pulled -  $4\frac{3}{4}$ " much.

" "  $6\frac{1}{4}$  July.

(Information C. D. Jones. 11-28-27)

# **COPY**

**W. M. ANDERSON WELL #2 (7)  
Section 9, T. 28 S., R. 19 E.  
Salt Valley Field, Utah**

**Log furnished by P. Huston.**

<u>From</u>	<u>To</u>	<u>Total Feet</u>	<u>Formation</u>
0	54	54	Surface wash
54	117	63	Blue shale
117	200	83	Blue shale, sulphur content
200	200	80	Hard hard gray lime
200	225	85	Hard gray lime
225	229	4	Blue lime shale
229	250	21	Hard blue gray lime
250	417	67	Blue to brown shale
417	420	3	Blue lime shale
420	487	67	Blue shale, water salty
487	500	13	Dark gray sandy shale
500	533	33	Black shale particles of calcite
533	545	12	Gray to black lime shale
545	570	25	Blue to gray sandy, showing gas
570	582	12	Light gray to brown shale sandy
582	585	3	Gray to brown sandy shale
585	585	0	Drab sandy lime
585	600	15	Bluish gray sandy shale
600	645	45	Hard gray lime
645	674	29	Hard black lime
674	737	63	Gray lime shale clayish material resembling bentonite
737	739	2	Light gray shale clayish material
739	739	0	Black lime shale
739	737	2	Black sandy shale showing gas and oil
737	815	78	Blue to black shale
815	821	6	Black lime shale oil colors
821	829	8	Light gray shale oil colors
829	874	45	Dark gray lime
874	885	11	Light gray sandy lime
885	885	0	Hard sandy stone
885	885	0	Sandy lime very hard
885	885	0	Gray sandy granite conglomerate
885	885	0	Greenish gray conglomerate
885	885	0	Light green conglomerate
885	885	0	Colored conglomerate green, blue, brown
885	885	0	Conglomerate lime content
885	885	0	Gray bluish shale varying lime content
885	885	0	Gray sandy shale iron stained
885	885	0	Irregularly bedded sandy material coarse grained.
885	885	0	Dark brown sandy shale
885	885	0	Hard sandy sandstone
885	885	0	Gray to brown sandstone very hard
885	885	0	Sandy lime blue grained

1056	1063	7	Ironed stained sandy lime strong showing gas and oil
1063	1067	24	Brown sandy lime shale
1067	1114	27	Black to brown sandy shale
1114	1142	28	Gray banded shale
1142	1147	5	Gray shale
1147	1177	30	Light gray shale
1177	1217	40	Light gray to blue shale
1217	1220	35	Very hard sandy conglomerite
1220	1224	14	Sandy conglomerite
1224	1273	9	Hard shaly sandstone
1273	1281	8	Very hard sand
1281	1287	6	Sand, strong showing high gravity oil with or just below water



